

10

X	X	X	X	X
X	X	X	X	X
X	X	X	X	X
X	X	X	X	X

Source Image (Is)  
 Dimension 5x4  
 points (pixels)  
 Aspect Ratio 5/3  
 Anamorphic  
 Pixels

0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0

Destination  
 Image (Id)  
 Dimension 10x6  
 points(pixels)  
 Aspect Ratio 5/3  
 Square Pixels

Fig. 1

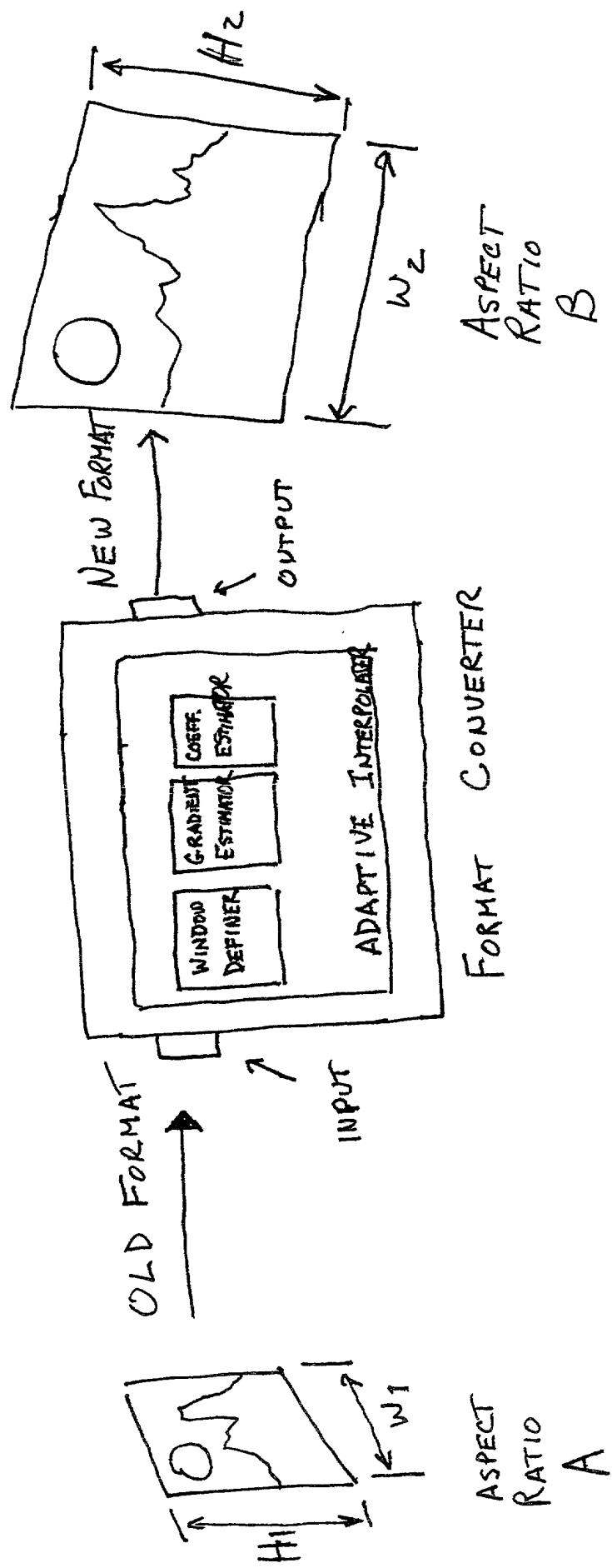


Fig. 2

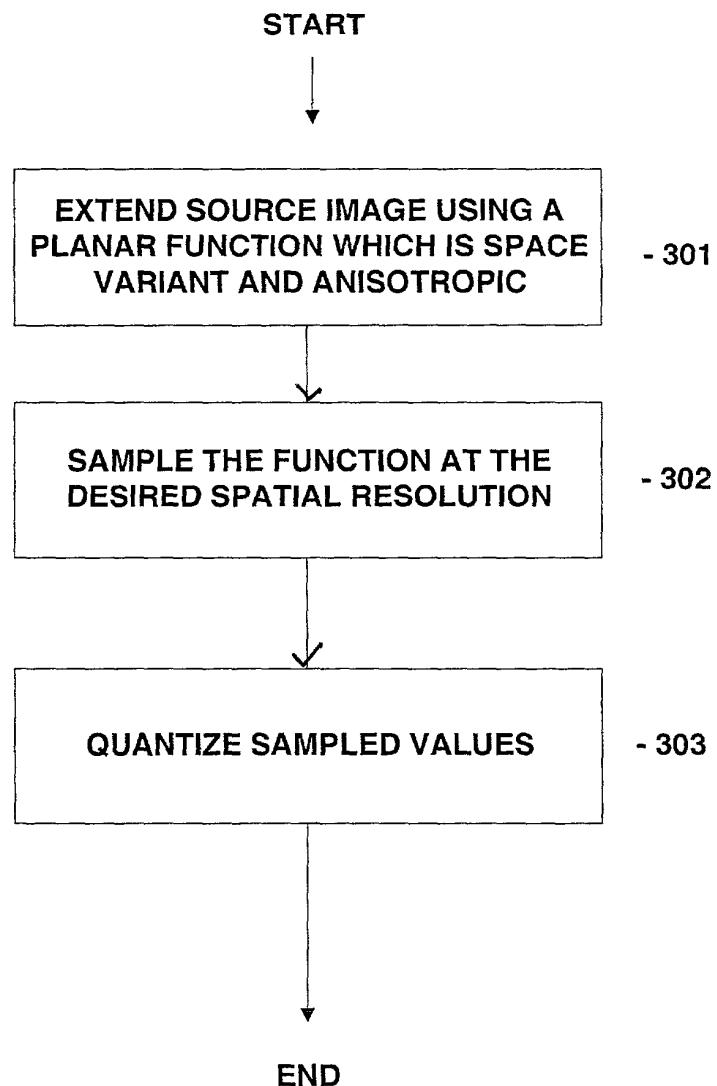


FIG. 3

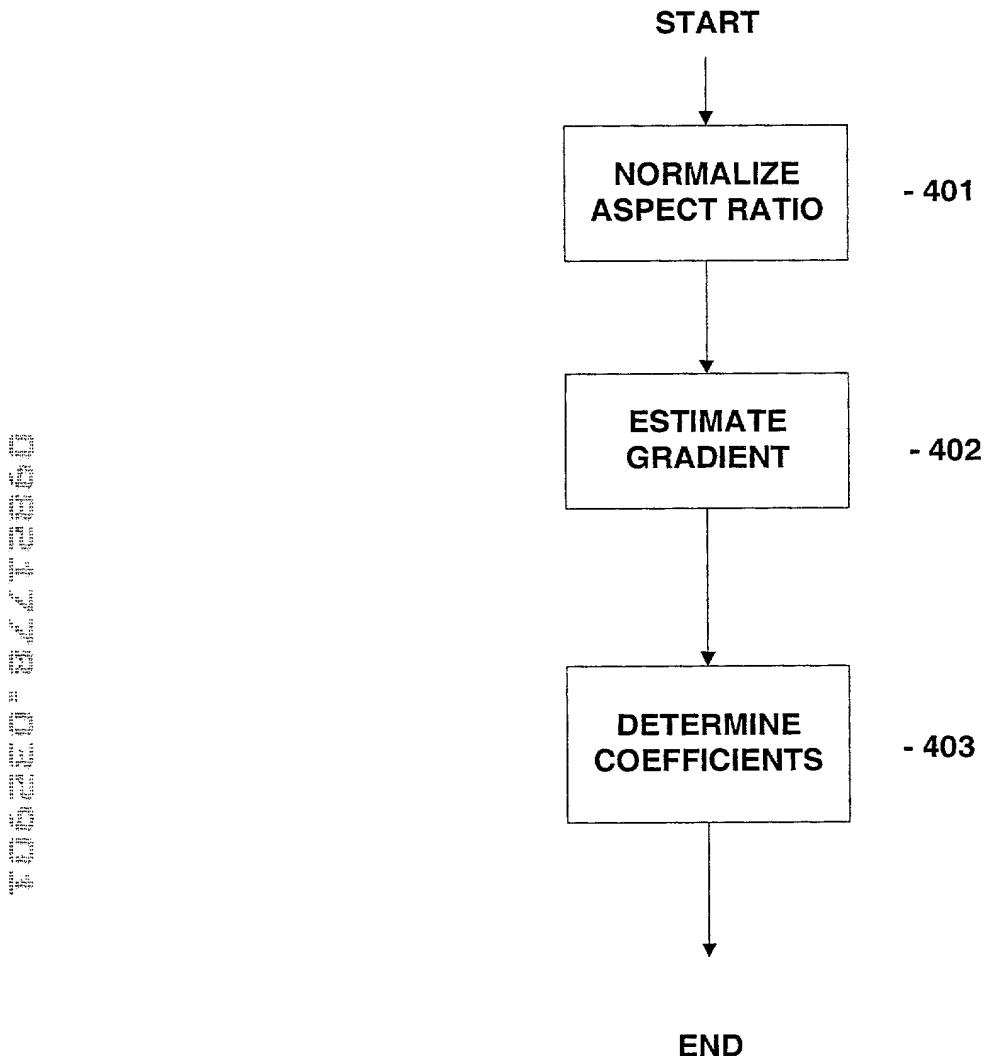


FIG. 4

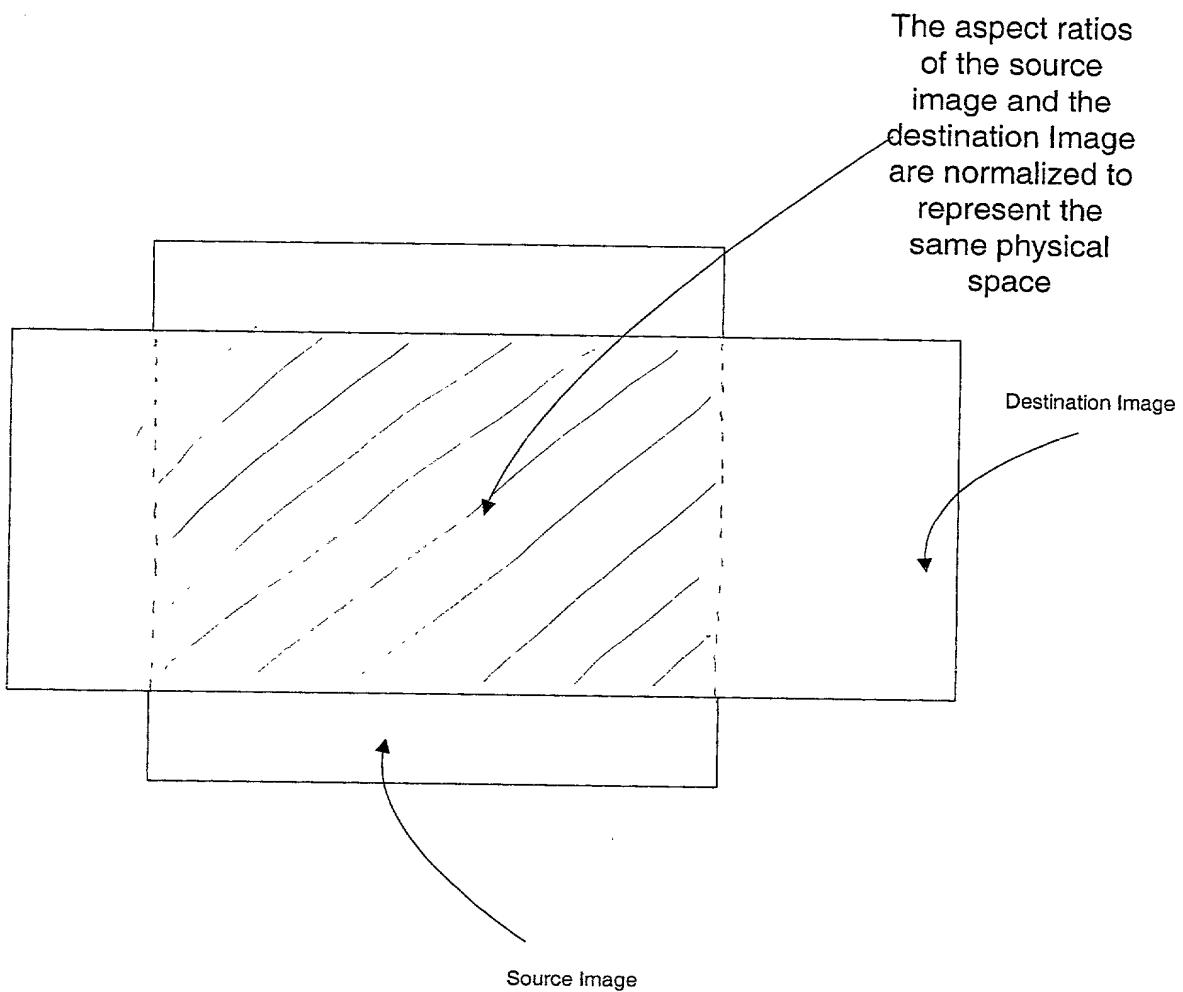
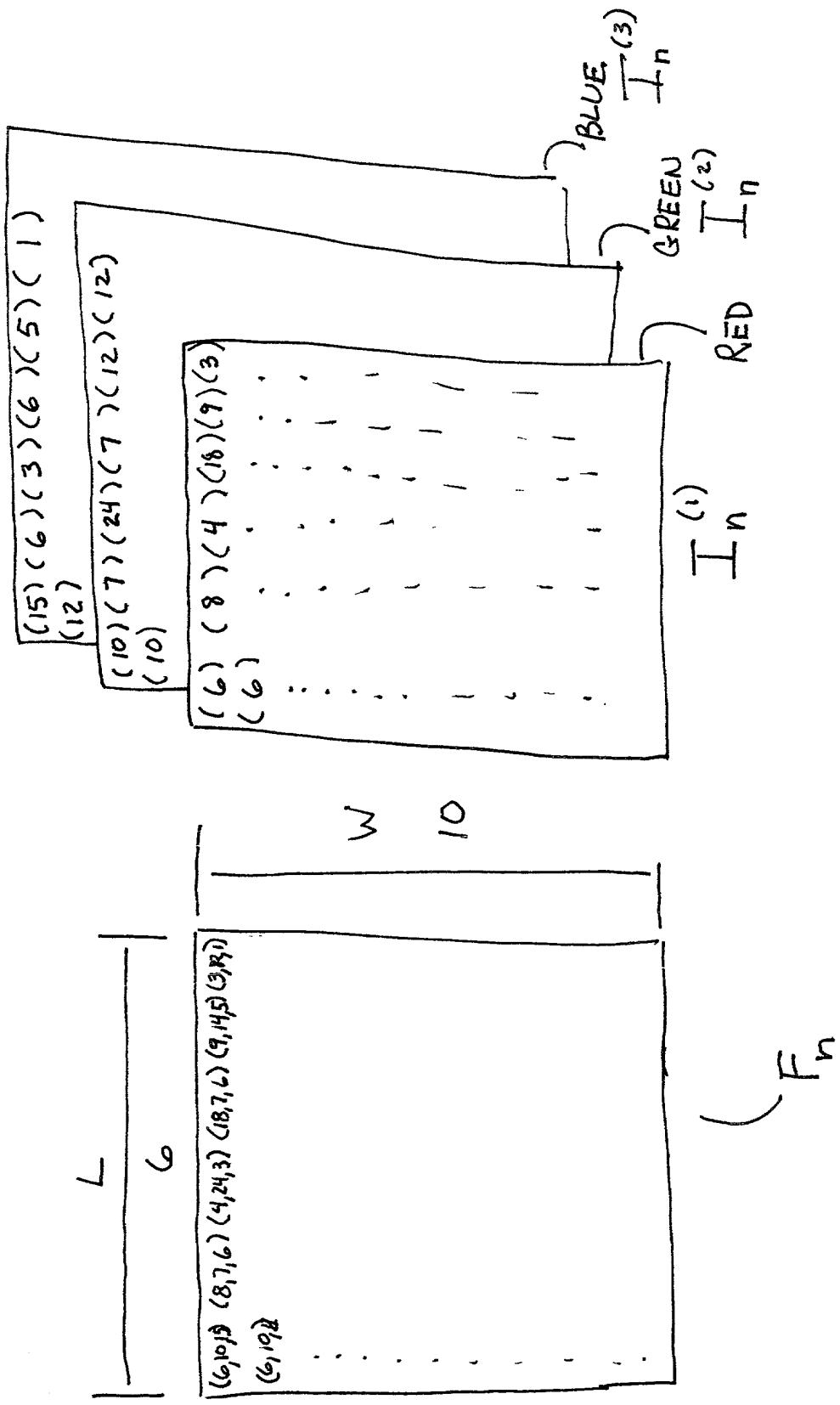


Fig. 4A



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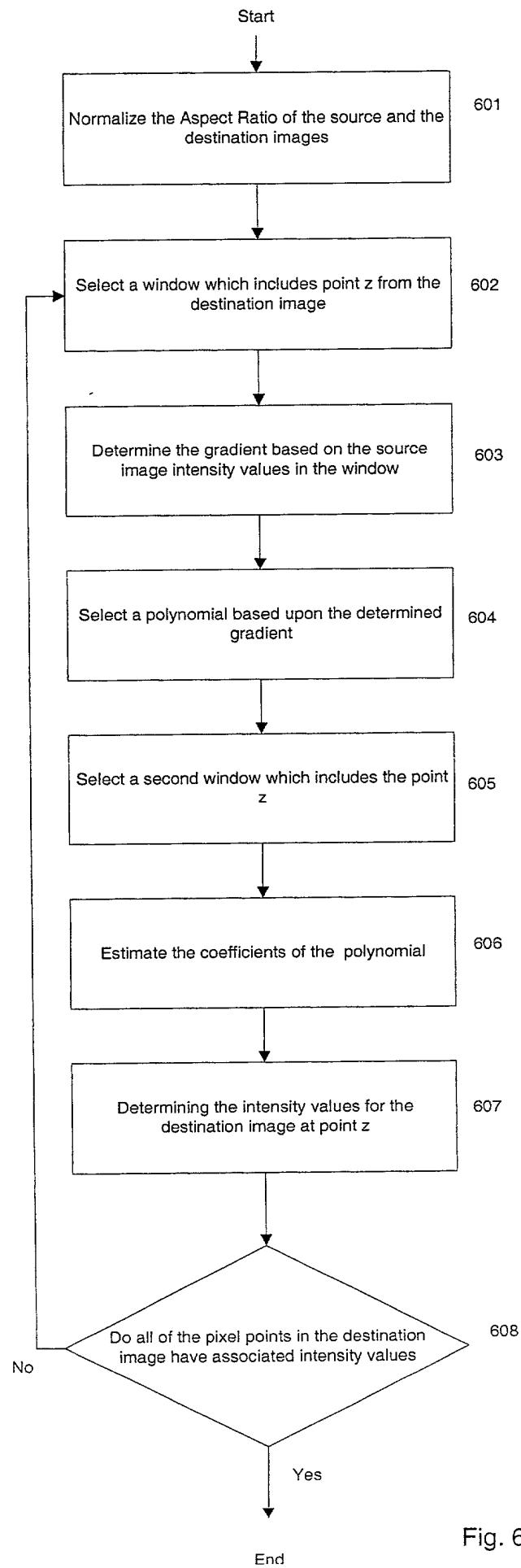


Fig. 6

0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	<del>X</del>	0	<del>X</del>	0	<del>X</del>	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	<del>X</del>	0	<del>X</del>	0	<del>X</del>	0
0	0	0	<del>X</del>	0	0	0
0	0	0	0	0	0	0
0	<del>X</del>	0	<del>X</del>	0	<del>X</del>	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0

$$Z = (4, 7) \in G'$$

G: The Points(Pixels) of the Source Image is Represented by X's

G': The Points(Pixels) of the Destination Image is Represented by 0's

Fig. 7

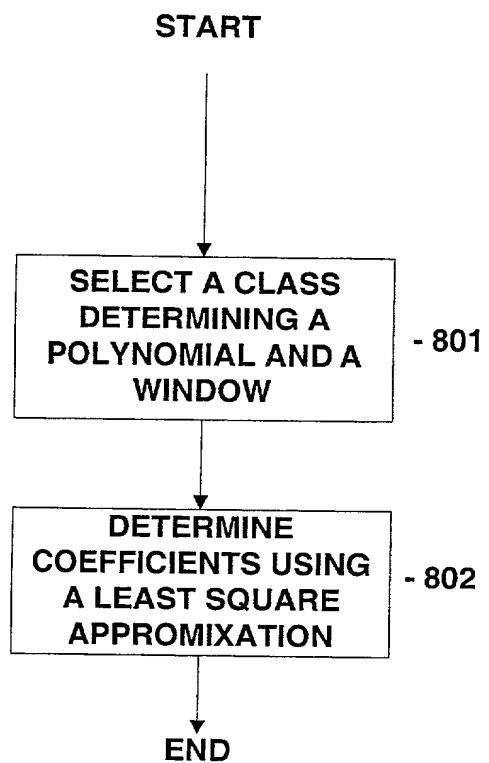


FIG. 8

GRADIENT		CLASS	POLYNOMIAL	WINDOW SIZE
MAGNITUDE	DIRECTION			
1	1	1	$A+Bx$	2
1	2	2	-	-
1	3	3	-	-
1	4	4	-	-
2	1	5	-	-
2	2	6	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
16			$A+Bx+Cy+Dz$	4

FIG. 9

ON LINE  
(REAL TIME)

OFF-LINE  
(PRECALCULATED)

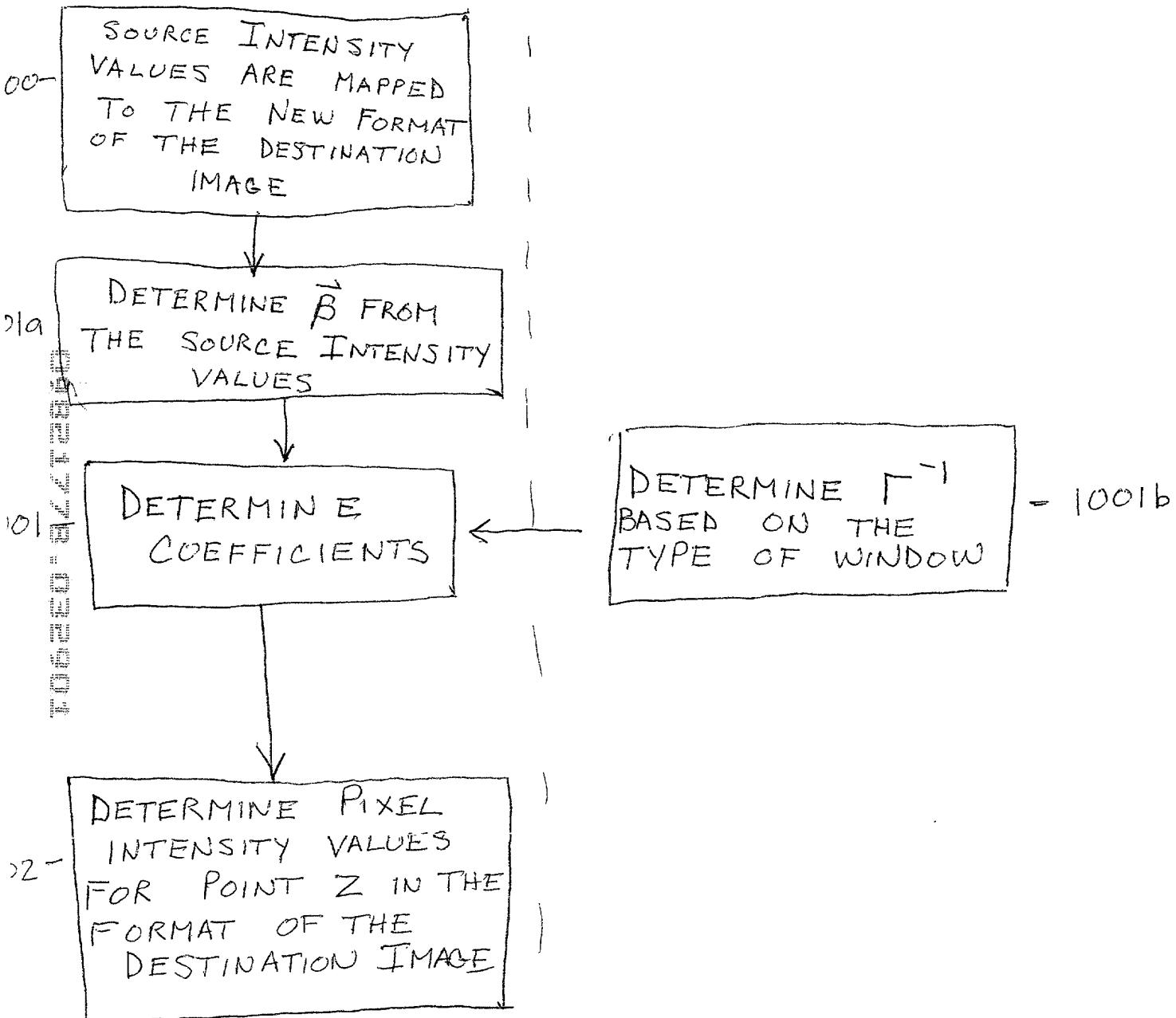


FIG. 10

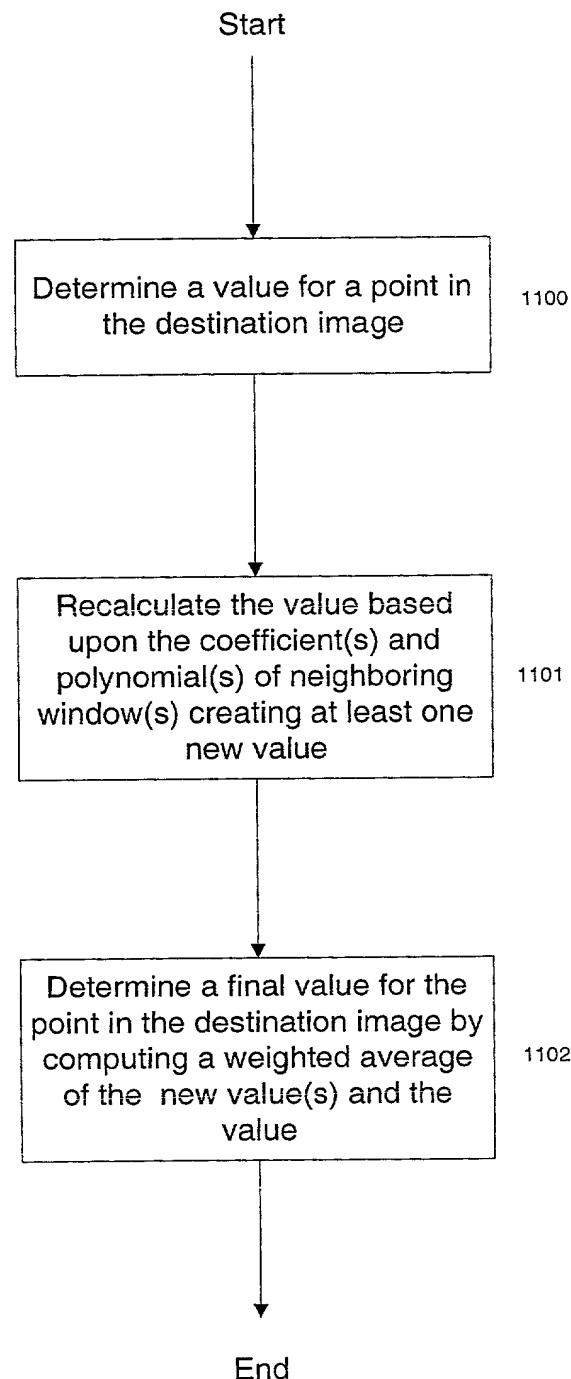


Fig. 11